

**Amendments to the Claims:** This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A hydrogen supply system, the system comprising a first hydrogen storage material and a second hydrogen storage material, wherein the two hydrogen stores are separate; and wherein the first hydrogen storage material can be activated to release hydrogen at a lower temperature than can the second hydrogen storage material; wherein at least a proportion of the hydrogen released from the first hydrogen storage material is utilised to activate the second hydrogen storage material; and wherein at least a proportion of the hydrogen released from the second hydrogen storage material is made available to a hydrogen consumption system, and wherein the second hydrogen storage material is activated by oxidising ~~at~~ the proportion of the hydrogen released from the first hydrogen storage material in a hydrogen burner unit.
2. (Currently Amended) A system according to claim 1, wherein a further proportion of the hydrogen released from the first hydrogen storage material is made available to the hydrogen consumption system.
3. (Previously Presented) A system according to claim 1, wherein a proportion of the hydrogen released from the second hydrogen storage material is used to recharge the first hydrogen storage material.
4. (Previously Presented) A system according to claim 1, wherein the first hydrogen storage material can be activated to release hydrogen at a temperature of less than 100 °C.
5. (Previously Presented) A system according to claim 1, wherein the second hydrogen storage material can be activated to release hydrogen at a temperature of from 250 °C to 350 °C.
6. (Previously Presented) A system according to claim 1 further comprising one or more heat exchangers to remove heat from the hydrogen released from the first or second hydrogen storage materials.

7. (Previously Presented) A system according to claim 1, wherein the first hydrogen storage material is selected from the group consisting of an AB<sub>5</sub>, an AB<sub>2</sub> and an AB type material, and any combination thereof.
8. (Previously Presented) A system according to claim 7, wherein the first hydrogen storage material is selected from the group consisting of LaNi<sub>5</sub>, Al doped LaNi<sub>5</sub>, CeNi<sub>5</sub>, Al doped CeNi<sub>5</sub>, CaNi<sub>5</sub>, Mn doped CaNi<sub>5</sub>, TiVMn, Zr doped TiCrMn, Zr doped TiCr<sub>2</sub>, Co doped TiV<sub>2</sub>, Fe/Ti, Ti/Zr, Ti(MnV) and Ti(MnCr), and any combination thereof.
9. (Currently Amended) A system according to claim 1, wherein the second hydrogen storage material comprises Mg.
10. (Previously Presented) A system according to claim 9, wherein the second hydrogen storage material further comprises PGM.
11. (Previously Presented) A system according to claim 9, wherein the second hydrogen storage material is MgH<sub>2</sub> or Mg H<sub>2</sub>/Ni, or any combination thereof.
12. (Previously Presented) A system according to claim 1, wherein the hydrogen consumption system comprises a fuel cell.
13. (Previously Presented) A system according to claim 1, wherein the hydrogen consumption system comprises an internal combustion engine.
14. (Previously Presented) A vehicle, the vehicle comprising a system according to claim 12 as a power source.
15. (Currently Amended) A method of activating a second hydrogen storage material for supplying a hydrogen consumption system, whichthe method comprising:
  - a) utilising heat produced by oxidising in a burner unit at least a proportion of a stream of hydrogen generated by activating a separate first hydrogen storage material to cause release of hydrogen from a second hydrogen storage material; and
  - b) consuming at least a portion of the hydrogen released from the second hydrogen storage material in the hydrogen consumption system.